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Closed Topic Search

Published on SBIR.gov (<https://www.sbir.gov>)

1. 001: Low Power Tri-axial Acoustic Sensor

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The U.S. Customs and Border Protection (CBP) use UGS units to detect personnel, vehicles, and aircraft engaged in illegal activity at the U.S. border. The UGS units consist of: sensor(s) for detecting activity; a buried housing that contains a processing unit that interprets the received signals from the sensor(s) and performs administrative and control tasks; a radio for communicating alarms back ...

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2. 002: Improved Wipes for Surface Sampling of Chemical Agents on Porous Materials

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The Department of Homeland Security (DHS) has a need for a novel surface wipe material that more efficiently removes low volatility chemical agent contamination from porous and absorptive surfaces (e.g., uncoated and coated concrete, painted wallboard, unglazed ceramic tile) than current cellulosic-based, gauze-type, wipe materials. The novel wipe material will further demonstrate the ability to q ...

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3. 003: Mobile Device Forensics

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Within the area of mobile device forensics, the Department of Homeland Security (DHS) Science and Technology (S&T) Directorate is currently interested in three distinct facets of this complex problem area. Proposers can respond to any of the three sub-topics listed below (i.e., proposers may submit up to three different sub-topic proposals in response to this mobile device forensics topic). Sub-t ...

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4. 004: Short Standoff Checkpoint Detection System for Explosives

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Checkpoint security incorporates a wide variety of screening technologies and processes to detect person-borne threats and illicit objects, including weapons and explosives. Individuals attempting to circumvent checkpoint security have resorted to a variety of techniques to avoid detection, including hiding threat or illicit objects, but minute quantities of trace explosives may remain on their pe ...

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5. [005: Iris Image Quality Tool Suite for Biometric Recognition](#)

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Biometric system performance depends on the quality of the acquired input samples. If sample quality can be improved, whether by sensor design, user interface design, or standards compliance, better performance can be realized. For those aspects of quality that cannot be designed-in, an ability to analyze the image and identify recognition-related defects and problems is needed. The ability to qui ...

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6. [006: Intelligent "Object" Symbolology](#)

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The Department of Homeland Security (DHS) is committed to using cutting- edge technologies and scientific talent in its quest to make America safer. The International Committee for Information Technology Standards (ANSI INCITS) 415-2006, Homeland Security Mapping Standard - Point Symbolology for Emergency Management establishes point symbols focused exclusively on the emergency management and emerge ...

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7. [9.01: Advanced Manufacturing](#)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is "a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

8. [9.02: Climate Change and Clean Energy](#)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards. These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts. Such capabilities will be equally important for assessing the impact of energy and climate change policies on t ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

9. [9.03: Cybersecurity](#)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework - based on existing standards, guidelines, and practices - for reducing cy ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

10. [9.04: Health Care and Bioscience](#)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where National Institute of Standards and Technology (NIST) research serves the needs of the bioscience and health care community. NIST collaborates extensively with o ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

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